

## Los Alamos Community Education Resources

Supporting Teachers

Inspiring Students

Strengthening Communities



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Family Strengths Network      (www.lafsn.org)	

## **Assets In Action**

**A community building program of the Los Alamos Commerce and Development Corporation and the Juvenile Justice Advisory Board.**

## **Healthy Community, Healthy Youth**

### **Asset Champions:**

**Aspen-Tammy Moore   Barranca-Kay Swadener  
Chamisa-Renee Mitsunaga   Mountain-Scott Johnson  
Pinon-Karen Forsyth   LAMS-Dawn Barr   LAHS-Kathy Boerigter**

### **What we do:**

**Change of Heart   Community Assets Awards  
Cookies & Conversation   Hubba Bubba Awards  
Traveling library for school staff**

### **Contact Us:**

**Inter school mail with a box at Chamisa**

**Phone: 661-4846   Text: 505-695-9139**

**Email: [AssetsInAction@att.net](mailto:AssetsInAction@att.net)**

**Facebook: AssetsInAction   Twitter: AssetsInAction**



# The 40 Developmental Assets<sup>®</sup> for Grades 6–12

*Assets Change Lives—How Many Do Your Kids Have?*



- support  

- empowerment  

- boundaries & expectations  

- constructive use of time  

- commitment to learning  

- positive values  

- social competencies  

- positive identity  


## The EXTERNAL Assets

- 1 **Family support** • Family life provides high levels of love and support.
- 2 **Positive family communication** • Young person and her or his parent(s) communicate positively, and young person is willing to seek advice and counsel from parent(s).
- 3 **Other adult relationships** • Young person receives support from three or more nonparent adults.
- 4 **Caring neighborhood** • Young person experiences caring neighbors.
- 5 **Caring school climate** • School provides a caring, encouraging environment.
- 6 **Parent involvement in schooling** • Parent(s) are actively involved in helping young person succeed in school.
- 7 **Community values youth** • Young person perceives that adults in the community value youth.
- 8 **Youth as resources** • Young people are given useful roles in the community.
- 9 **Service to others** • Young person serves in the community one hour or more per week.
- 10 **Safety** • Young person feels safe at home, at school, and in the neighborhood.
- 11 **Family boundaries** • Family has clear rules and consequences, and monitors the young person's whereabouts.
- 12 **School boundaries** • School provides clear rules and consequences.
- 13 **Neighborhood boundaries** • Neighbors take responsibility for monitoring young people's behavior.
- 14 **Adult role models** • Parent(s) and other adults model positive, responsible behavior.
- 15 **Positive peer influence** • Young person's best friends model responsible behavior.
- 16 **High expectations** • Both parent(s) and teachers encourage the young person to do well.
- 17 **Creative activities** • Young person spends three or more hours per week in lessons or practice in music, theater, or other arts.
- 18 **Youth programs** • Young person spends three or more hours per week in sports, clubs, or organizations at school and/or in community organizations.
- 19 **Religious community** • Young person spends one hour or more per week in activities in a religious institution.
- 20 **Time at home** • Young person is out with friends "with nothing special to do" two or fewer nights per week.

## The INTERNAL Assets

- 21 **Achievement motivation** • Young person is motivated to do well in school.
- 22 **School engagement** • Young person is actively engaged in learning.
- 23 **Homework** • Young person reports doing at least one hour of homework every school day.
- 24 **Bonding to school** • Young person cares about her or his school.
- 25 **Reading for pleasure** • Young person reads for pleasure three or more hours per week.
- 26 **Caring** • Young person places high value on helping other people.
- 27 **Equality and social justice** • Young person places high value on promoting equality and reducing hunger and poverty.
- 28 **Integrity** • Young person acts on convictions and stands up for her or his beliefs.
- 29 **Honesty** • Young person "tells the truth even when it is not easy."
- 30 **Responsibility** • Young person accepts and takes personal responsibility.
- 31 **Restraint** • Young person believes it is important not to be sexually active or to use alcohol or other drugs.
- 32 **Planning and decision making** • Young person knows how to plan ahead and make choices.
- 33 **Interpersonal competence** • Young person has empathy, sensitivity, and friendship skills.
- 34 **Cultural competence** • Young person has knowledge of and comfort with people of different cultural/racial/ethnic backgrounds.
- 35 **Resistance skills** • Young person can resist negative peer pressure and dangerous situations.
- 36 **Peaceful conflict resolution** • Young person seeks to resolve conflict nonviolently.
- 37 **Personal power** • Young person feels he or she has control over "things that happen to me."
- 38 **Self-esteem** • Young person reports having a high self-esteem.
- 39 **Sense of purpose** • Young person reports that "my life has a purpose."
- 40 **Positive view of personal future** • Young person is optimistic about her or his personal future.

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# Bandelier National Monument

## Online Resources:

In our website, [www.nps.gov/band](http://www.nps.gov/band), under "For Teachers":

- Ancestral Pueblo curriculum, 15 ready-to-do lesson plans on the early inhabitants of the area; also includes listings of loan items available free from the park.
- Fire Ecology curriculum, information and field trip activities for learning about the role of fire in Ponderosa Pine forests

Under "History and Culture": link to the Bandelier Museum Collection, which also includes lesson plans, and 70 photos of the Civilian Conservation Corps

Under "Plan Your Visit": look in the section on Fees to find information on making reservations for your group to visit the park, including getting a fee waiver if you are eligible

**WebRangers** - look in [www.nps.gov/webrangers](http://www.nps.gov/webrangers) for learning activities from National Park Service areas all over the country. The Bandelier game, "The Ancestral Pueblo People", features terrific illustrations of life in this area when the Ancestral people lived here.

## Onsite Resources:

- When staffing permits, arriving groups will have an orientation talk by a ranger
- For the Main Loop Trail to the dwellings, a self-guiding booklet is available. Look in Lesson 15 in the curriculum (above) to find special guidebooks, especially for students, available to be copied for class use.
- In the Visitor Center, visit the museum and see the movie
- For very small groups or families, there is a free Junior Ranger program with 4 different activity booklets designed for different grade levels; ask at Visitor Center

## For more information:

- Contact Chris Judson at 505-672-3861 x 513 or [chris\\_judson@nps.gov](mailto:chris_judson@nps.gov)
- Follow Bandelier on Facebook (BandelierNPS); browse through our website [www.nps.gov/band](http://www.nps.gov/band)



# Explorations @ the Museum



## Bring History to Life

Examine primary sources and artifacts from the World War II Manhattan Project at Los Alamos and watch the 17-minute documentary film *The Town that Never Was*.

## Science Inspiration

Participate in interactive exhibits showcasing current LANL projects such as nanotechnology, algae biofuels, environmental monitoring and understanding radiation.

## Challenge Yourself

Exercise your brain and use scientific thinking to solve problems at our puzzle tables, then try your hand at our particle accelerator simulation game.

## Scavenger Hunts and Activity Sheets

Tour the museum using scavenger hunts and activity sheets specifically tailored to several age groups, from preschool children through adults. Available online or at the museum upon your arrival.

## School Group Demonstrations (Advance Registration Required)

**Cryogenics** - Solids, liquids, gases and beyond; this demonstration uses liquid nitrogen to explore the science of extreme cold.

**Atoms and Elements** - A demonstration about the building blocks of matter and the origin and meaning of the periodic table

**Mars Rover Presentation and Q&A Session** - Explore the science of the red planet and learn about Los Alamos' participation in the Curiosity Rover mission

**Manhattan Project Presentation and Q&A Session** - View our MP film, *The Town that Never Was*, and participate in a simulation activity to test your imagination, ingenuity, and grace under pressure.

Please contact us to register group visits or for more information. Every experience is customizable.

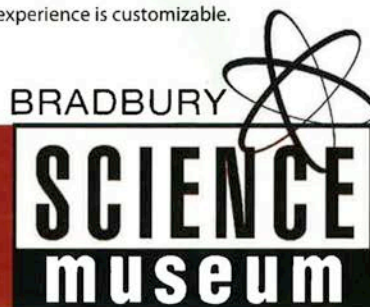
**Museum Educators:** (505) 667-3157 or [edu-bsm@lanl.gov](mailto:edu-bsm@lanl.gov)

**Museum Operations Manager:** (505) 665-3339

**Hours: Tuesday-Saturday, 10-5**  
**Sunday & Monday, 1-5**

**505-667-4444**

**[www.lanl.gov/museum](http://www.lanl.gov/museum)**



LOS ALAMOS NATIONAL LABORATORY



SAND!



STRAW!



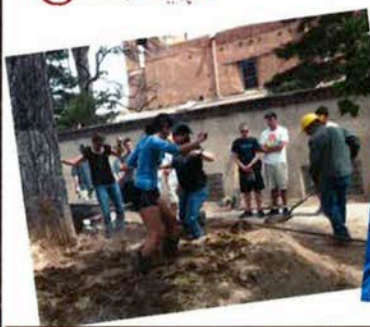
ADOBE



*Cornerstones*  
CRAFTING THE FUTURE



TRADITION!



**CORNERSTONE COMMUNITY PARTNERSHIPS**

Preserving Architectural Heritage and Cultural Traditions  
for Future Generations

Free Hand's-On Workshops!

\*Traditional Adobe Making \*Adobe Painting \*Adobe Seed Balls

[www.cstones.org](http://www.cstones.org)

505-982-9521



FOR YOUTH DEVELOPMENT®  
FOR HEALTHY LIVING  
FOR SOCIAL RESPONSIBILITY

# LEARN GARDEN GROW

Experiential Learning  
LA Youth Food Project



We are here to help you meet your curriculum goals.  
We link great hands-on garden experiences to the  
subjects you teach such as foreign language, arts  
(visual and performing), math, sciences, social  
studies and more.

[layouthfoodproject@laymca.org](mailto:layouthfoodproject@laymca.org)







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## Teacher Resources:

- Garden-Inspired library. All Los Alamos teachers have access to check out garden-related books. Search for our books based on grade level or subjects. Look at the books we have available at [layouthfoodproject.wordpress.com](http://layouthfoodproject.wordpress.com) Click on "curriculum" under the "about" tab. If you don't see what you want, please let us know and we'll get it for you.
- We are happy to visit your class to do fun garden-related activities that meet your curriculum goals. Call us and let us do the work.
- We have gardens that you and your students can use as a tangible resource.
- We have funding for
  1. Garden supplies
  2. Class field trips to garden sites
  3. A point teacher (stipend available; be the person of contact for garden-related activities) for your school
- **Our programming and resources are free**



505.662.3100

Nicole, Service Learning Coordinator

[layouthfoodproject@laymca.org](mailto:layouthfoodproject@laymca.org)

Sylvan, The Family YMCA Community Programs Director and LAYFP Project Coordinator

[sargo@laymca.org](mailto:sargo@laymca.org)

[layouthfoodproject.wordpress.com](http://layouthfoodproject.wordpress.com)



# Fuller Lodge Art Center



## \*\*\* VISIT \*\*\*

We have rotating exhibits on different themes that are great to visit. We can prepare a tour, scavenger hunt, and art activity relating to the exhibit. Let us help you plan a field trip to the Historical Museum, Mesa Public Library, & the Art Center!

## \*\*\* VOLUNTEER \*\*\*

\*Potential INTERNSHIP opportunities with High School students through Work Study Class, or on their own &

\*Do an Art Project for a local organization, we have resources for new and upcoming projects.



## \*\*\* ART EXPERTS \*\*\*

We have artist contacts willing to come talk to students about the work they do, and often offer a hands-on activity. Ask us about our "All About Art" Resource Boxes coming Spring 2014!

Students interested in Art as a career path can set up an appointment with a professional artist for a portfolio review.

### FULLER LODGE ART CENTER

\* 2132 Central Avenue \* Los Alamos, NM 87544 \* 1(505)662-1635 \*  
\* [www.fullerlodgeartcenter.com](http://www.fullerlodgeartcenter.com) \* 10-4 M-Sa \*



# KRAZ-E-SCIENCE

*The most fun you'll have learning physics!*



KRAZ-E-Dave Schwellenbach educates students about science with fun & imaginative demonstrations.

KRAZ-E-SCIENCE has been visiting elementary, middle and high schools since 2004 in New Mexico and Wyoming.

If you would like KRAZ-E-SCIENCE to visit your classroom or other group to inspire future scientists and engineers, contact Dave at:

**(505) 412-3576**

**dave@kraz-e-science.com**

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# KRAZ-E-SCIENCE

Dave's wild and crazy science show demonstrates principles of:

- MOTION •••••
- ENERGY •••••
- MOMENTUM •••••
- OPTICS •••••
- TEMPERATURE •••••
- PRESSURE •••••
- ELECTRICITY •••••
- MAGNETISM •••••
- GRAVITY •••••



[www.kraz-e-science.com](http://www.kraz-e-science.com)  
email [dave@kraz-e-science.com](mailto:dave@kraz-e-science.com)  
(505) 412-3576

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The Emily Bradley Memorial Fund



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- ~•• GRAVITY ••~••



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email [dave@kraz-e-science.com](mailto:dave@kraz-e-science.com)  
(505) 412-3576

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The Emily Bradley Memorial Fund





## Co+op Teacher Resources

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### Curriculum Support Raising Money Saving Money

**Contact: Sandra West, Outreach Coordinator**

Email: [outreach@losalamos.coop](mailto:outreach@losalamos.coop)

Phone: 505-695-1579

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### Curriculum Support

#### Fieldtrip to the Co+op

See the educational hoop house and the inner workings of the Co+op. Learn about local foods, play a game, get a tour of the store, and sample delicious food!

#### Presentation in your Classroom

We would love to attend class and bring in a sample of foods and/or make a short presentation to compliment your curriculum.

#### High School: Co+opROCKS!

The Co+op developed Co+opROCKS! to reach out to young adults (high school and college age) to teach cooperative values by helping them create a music and art based event for students, by students, where they can have fun in a safe environment and share their talents and interests.



## **Raising Money**

### **Script Program**

We have a script program available to help your school group raise money. This program, similar to that of Smith's, allows school groups to purchase gift cards at 90% of the full price and then sell the gift cards to the community/parents at the full price. Thus, the school group receives \$1 for each \$10 sold.

### **TerraCycle**

TerraCycle is a company that strives to eliminate the idea of waste by recruiting groups of people to collect items and send them in to be up-cycled and recycled. In return, they donate funds that can go to schools and non-profits. Our TerraCycle program, started fall 2012, raised \$250 to date. We would be happy to work with other groups/individuals to expand these programs (expanding ours or helping your start your own) to help keep items out of the landfill, teach recycling, and raise money for your classroom/school.

## **Saving Money**

### **Buying Bulk: Special Orders**

If you need food for your classroom or an event, the Co+op can fill your order with nutritious, healthy foods at a significant discount.

## **Ideas?**

We are still developing our school outreach programs, so please contact us with your ideas.

### **Contact: Sandra West, Outreach Coordinator**

Email: [outreach@losalamos.coop](mailto:outreach@losalamos.coop)

Phone: 505-695-1579

## *Los Alamos County Libraries & You!*

We have a wide variety of services for teachers and we would love the chance to work with you!



**We have a wide range of online databases to supplement student's research.** These online resources are FREE to access for anyone with a valid Los Alamos County Library System card. They are a great way for students to access the most current information about topics. Try Biography in Context, Careers!, or Writer's Reference Center. Visit all our databases online: <http://www.losalamosnm.us/library/Pages/DatabasesList.aspx>



**We have services specifically for teachers.** Use our Assignment Notification Form or our Materials Request Form to have library staff pull specific or suggested titles for assignments or class readings. Use these forms to help your students be prepared when they visit the public library OR have library staff pull material for use in your classroom! We also have a Youth Art Gallery where your classes can display their artwork for public viewings.



**We LOVE class visits!** Library staff loves field trip visits from classes. We would be happy to arrange a field trip visit for your class to either branch library. Youth Services staff would also love to come to you and visit your classrooms and schools to discuss the library or any topics you might be covering.

Los Alamos County Library System looks forward to working with you and your classes all year long. Collaborating with teachers and educators is an integral part of our services. **Please feel free to contact Youth Services directly at 662-8258 or [ysweb@lacnm.us](mailto:ysweb@lacnm.us)** for more information about any of these services or about how the library can work with you and your school.

I look forward to hearing from you – have a great school year!

-Angie Manfredi, Head of Youth Services ([angelina.manfredi@lacnm.us](mailto:angelina.manfredi@lacnm.us) or 662-8257)



# Los Alamos Historical Society

Teachers:  
The Los Alamos Historical Society  
would like to help you.

Welcome to a new school year! We have a museum educator on staff to provide resources and tours as well as other ways to help you upon request. These include:

- ❖ Museum Field Trips and Tours
- ❖ Historic Los Alamos Walking Tours (self-directed or with guides) that include ancestral Pueblos ruins, homesteading cabin, Ranch School buildings, and Manhattan Project sites
- ❖ Online Manhattan Project history curriculum, designed especially for 4<sup>th</sup>, 7<sup>th</sup>, and 9<sup>th</sup> grade students  
([www.losalamoshistory.org/Guide/tgmain2.htm](http://www.losalamoshistory.org/Guide/tgmain2.htm))
- ❖ Outreach Suitcases with hands-on artifacts
  - Ancestral Pueblo/Archaeology
  - Homesteading on the Pajarito Plateau
  - Los Alamos Ranch School
  - Manhattan Project
  - Los Alamos in the late 1940s and early 1950s
- ❖ Museum brochures designed especially for students
- ❖ History books in our Museum Shop, including the award-winning *Secret Project Notebook*, a 2008 selection for New Mexico Battle of the Books, and *A Boy on the Hill* about life in Los Alamos before the Manhattan Project.
- ❖ Help with National History Day projects
- ❖ Archival Research (by appointment only)

Please call Raffi (museum educator) at 505-695-5251  
or e-mail him at [educator@losalamoshistory.org](mailto:educator@losalamoshistory.org)

For more information or for more educational resources,  
visit our website at <http://www.losalamoshistory.org>



AUGUST '13						
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August 8-14 School supplies distributed to local schools

SEPTEMBER '13						
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[September 1-20 online registration for Supercomputing Challenge](#)

[September - Hydrogen Fuel Challenge Teacher Workshops](#)

[September Request for Science on wheels visits begin](#)

OCTOBER '13						
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[October 12 -Supercomputing Challenge Kickoff Conference](#)

NOVEMBER '13						
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[November 16 -Hydrogen Fuel Challenge](#)

DECEMBER '13						
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[December 10 -Interim Report due for Supercomputing Challenge](#)

JANUARY '14						
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[January 25 -Future City Competition](#)

FEBRUARY '14						
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 February Mathcounts

[February - Visits made for High School Co-op Program](#)

[February - High School Science Bowl \(final date TBD\)](#)

MARCH '14						
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[Middle School Science Bowl \(final date TBD\)](#)

[March 8 - Expanding Your Horizons - Santa Fe](#)

APRIL '14						
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[National Science Bowl \(final dates TBD\)](#)

[Supercomputing Challenge](#)

MAY '14						
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[May 1-3 RoboRave Int'l](#)

For additional information contact Janelle Vigil-Maestas at 665-4329 or [vigil-m@lanl.gov](mailto:vigil-m@lanl.gov) or visit <http://community.lanl.gov>

Please note that Laboratory employees are allowed up to 32 hours of **Science Education Community Service Time** to support Science, Technology, Engineering and Math initiatives during a calendar year.

**MATHCOUNTS** is a national middle school coaching and competitive mathematics program that promotes mathematics achievement through a series of fun and engaging "bee" style contests. There are four levels of competition - school, region, state, and national. The Competition(s) provide students with incentives to prepare throughout the school year to represent their schools at the MATHCOUNTS hosted events. MATHCOUNTS was developed as a positive and rewarding solution to reversing the current problem of math illiteracy as a way to make parents, educators, and the public aware of career opportunities in math. The program exists in all 50 states and is supported by the National Society of Professional Engineers. (<http://mathcounts.org>)

#### **Regional Middle and High School Science Bowls**

The Middle School Science Bowl (for grades six through eight) and the High School Science Bowl (for grades nine through twelve) are academic competitions sponsored by the Department of Energy, Office of Science. The Science Bowl tests students' knowledge in all areas of science. Students are quizzed in a fast-paced question and answer forum. For both events, a regional competition is held in Albuquerque, with the winning team going on to the national competition. Los Alamos National Laboratory, Los Alamos National Security, LLC, the Public Service Company of New Mexico, Albuquerque Public Schools, and Sandia National Laboratories are sponsors of the regional event. ([http://www.sandia.gov/about/community/education\\_programs/doe\\_sciencebowl.html](http://www.sandia.gov/about/community/education_programs/doe_sciencebowl.html))

#### **Hydrogen Fuel Challenge**

This competition provides a hands-on opportunity for middle school students (grades six through eight) to understand the need for renewable energy sources and explore the emerging technology of hydrogen power. The competition consists of four areas that include the car design, an essay competition (optional) and the race itself. (<http://www.nmhydrogenfuelschallenge.org/main.asp>)

#### **Supercomputing Challenge**

The Supercomputing Challenge is an exciting program that offers a truly unique experience to students in our state. The opportunity to work on the most powerful computers in the world is currently available to only a very few students in the entire United States, but in New Mexico, it is just one of the benefits of living in the "Land of Enchantment."

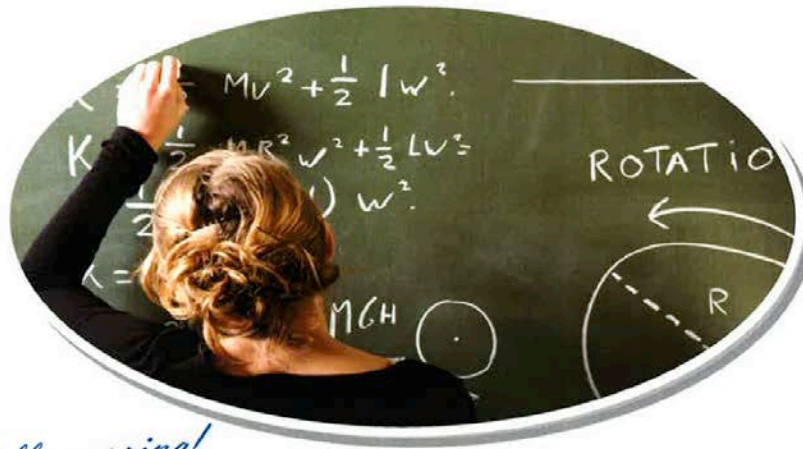
The Supercomputing Challenge is a program encompassing the school year in which teams of students complete science projects using high-performance supercomputers. Each team of up to five students and a sponsoring teacher defines and works on a single computational project of its own choosing.

Throughout the program, help and support are given to the teams by their project advisors and the Supercomputing Challenge organizers and sponsors.

The Supercomputing Challenge is open to all interested students in grades 6 through 12 on a non-selective basis. The program has no grade point, class enrollment or computer experience prerequisites. (<http://www.challenge.nm.org/>)

#### **RoboRave International**

RoboRave International is a robotics competition for students in grades 3 through 12. Two to four person teams work before the event to design, build and program their autonomous robot to perform a variety of competition tasks. The robotics platforms are generally Lego NXT but not limited to them. Teams select during their registration to compete in one of two challenges: the entry level OPEN PLATFORM or the advance level FIRE FIGHTING. (<http://roboquerque.org/>)



*fall & spring!*

### great ideas grants

Supporting teachers who have ideas for enriching the curriculum and providing students with unique learning experiences, these grants enable the purchase of special materials and resources for the classroom.

### teacher licensure/board certification stipend

In an effort to acknowledge their hard work and the expense involved, the Foundation reimburses teachers who have completed the dossier or National Board certification process.

*new*

### professional development grants

New this fall, look for grant opportunities for individuals or small groups interested in new approaches to enriching classroom instruction.

### professional book groups

Groups of any size interested in reading and discussing teaching techniques which are aimed at elementary, middle, and high school levels may apply for funding.

### Rynd outdoor classrooms

The up-to-\$10,000 Rynd outdoor classrooms are unique grant opportunities for all sites.

<http://www.lapsfoundation.com>    [j.gillespie@laschools.net](mailto:j.gillespie@laschools.net)

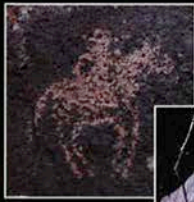
505.470.3734



*Los Alamos Public Schools*  
FOUNDATION



## Mesa Prieta Petroglyph Project



The Mesa Prieta Petroglyph Project (MPP) organizes in 1999, seeks to preserve petroglyphs on Mesa Prieta through education of the local community and recording what may well be over 25,000 rock images on the mesa.



*Photo right: G. L. Hartman, Mesa Prieta, NM, USA*



## Resources for Teachers

### ♦ Teacher Professional Development

2013 Training: Friday Sept 20th,  
8 a.m.—3.30 p.m.  
At 8 Northern Pueblos Admin. Bldg.  
Ohkay Owingeh

Attendees receive free 250 pp.  
bound curriculum. The program is  
free, but you must pre-register.

### Contact Information:

Jane Clements

1813clements@gmail.com

505-661-6570

Janet MacKenzie

mesaprieta@cybermesa.com

505-927-6604

### ♦ Docent-Led Field Trips at the Wells Petroglyph Preserve

#### Benefits of visiting the Wells Petroglyph Preserve

Exercise on the trails      Practice drawing in the field  
Develops wonder and respect for the petroglyphs and cultural environment  
See the petroglyphs in the field after studying the core units  
Experience the natural world of the northern Rio Grande Valley

### ♦ Resources Available for Use in the Classroom

4th— 6th Grade Curriculum: Available for year-round use (may be modified for other grade levels)  
\$35 for teachers who do not attend the workshop; free for teachers who attend the workshop

Available for check-out: Resource Trunk: Maps, Posters, DVDs, Books, Materials

#### Benefits of using the Discovering Mesa Prieta curriculum in the classroom:

Activity based	Local, place-based content
Cooperative learning	Research projects
Heritage ethics and stewardship	Spanish language component
Across the curriculum: science, math, history, art, culture, language arts	
Units explore: geology, astronomy, cultural history, map skills, archaeology	
Easily adapted for use at middle and high school levels	
STEM (Science, Technology, Engineering and Math) based	

**\*FOURTH, FIFTH and SIXTH GRADE TEACHERS\***

(Can be adapted for middle & high school students)

Bring NM History to life with the hands-on Curriculum: ***Discovering Mesa Prieta - The Petroglyphs of Northern New Mexico and the People Who Made Them***

**Professional Development Workshop**

September 20, 2012 8:00 AM – 3:30 PM

Eight Northern Indian Pueblo Council Building  
at Ohkay Owingeh

Bring a sack lunch

Teachers who attend will receive the curriculum guide that is “across the curriculum and activities based”.

**Now includes a bi-lingual component with vocabulary and student pages in Spanish!**

Materials Trunks are available for check-out

There is no charge but

**space is limited so register early!**

For more information or to register call

Judy Chaddick at 852-4197 or [judychaddick@gmail.com](mailto:judychaddick@gmail.com)

Sponsored by Mesa Prieta Petroglyph Project

# New Mexico State University Cooperative Extension Service Teacher Resources



## Los Alamos Faculty

### Carlos Valdez, Horticulturist

- Gardening
- Insects
- Trees and Shrubs
- Soils
- Natural Resources
- Robotics, GPS & Rocketry

(505) 662-2656  
valdez@nmsu.edu

### Paula Roybal Sánchez, Home Economist

- Nutrition & Fitness
- Health
- Social Behavior & Development
- Financial Planning

505 662-2656  
paulas@nmsu.edu



## *Available Curriculum Matched To State Standards*

- **Gee Whiz in Agriculture**
- **Pizza Garden, An Agricultural Adventure**
- **Africanized Honey Bees**
- **From Egg to Chick**
- **Animal Science**
  - **Horse Education**
  - **Veterinary Science**
- **Bicycle Adventures**
- **Computer Mysteries**
- **Financial Management**
  - **Consumer Savvy**
  - **Entrepreneurship**
- **Gardening**
- **Global Education**
- **Health**
  - **The Germ Detective**
  - **Health Rocks**
- **Home Economics**
  - **Just Be It Healthy & Fit**
  - **Kids on the Grow**
- **Natural Resources**
  - **Fishy Science**
  - **Exploring Your Environment**
  - **Forestry**
- **Robotics**
- **Social Behavior and Development**
  - **Proud to be Polite**
  - **Theatre**
  - **Getting in the Act**
- **Space Science**
  - **Rocketry**





## PAJARITO ENVIRONMENTAL EDUCATION CENTER



### HOW CAN PEEC HELP YOU?

The Pajarito Environmental Education Center (PEEC) can help you provide experiential education to your students both in and out of the classroom. PEEC offers a variety of field trips and PEEC-educator-led classroom lessons to enrich your curriculum and familiarize your students with the natural world on and around the Pajarito Plateau. All programs are aligned to State, Common Core and Next Generation Science Standards and are led by experienced environmental educators or subject-matter experts. During the 2012-13 school year, PEEC provided 139 school programs to 5,765 students. Find out how we can help you this school year!

### EDUCATIONAL PROGRAMS FOR THE 2013-14 SCHOOL YEAR

#### Elementary Schools

- ☀ Pajarito Plateau Field Science (PPFS) is a hands-on, field science curriculum for grades K-6. **Grades K-3** explore their schoolyards as natural habitats, while **Grades 4-5** investigate the trails closest to their schools. **Grade 6** monitors the wetlands at Fenton Lake State Park (grant-funded transportation is often available for these trips). Curriculum and supply trunks provided, or let us come teach it for you!
- ☀ PEEC offers standards-based field trips for every grade. **Grade K** field trips explore the Farmers Market in the fall. **Grades 1-3** spring trips examine nature science, geology and plants/soil, respectively. New this year for **Grades 4-5**, PEEC is offering winter ecology expeditions (snowshoes provided by PEEC)! **Grades 5-6** can embark on Park Flight bird banding field trips in the fall (some transportation grants available). **Grade 6** PPFS trips allow students to explore Fenton Lake.
- ☀ For **Grades 3-5**, through the Department of Public Utilities (DPU) outreach program, we will come to your classroom to teach a 50-minute lesson covering standards for each grade level on Energy or Water.

#### Middle School

- ☀ Through the DPU outreach program, we will come to your classroom to teach a week-long lesson covering standards for each grade level on Water (**Grade 7**) or Energy (**Grade 8**).
- ☀ For **Grades 7-8**, through the DPU outreach program, we will come to your classroom to teach 3-5 days of lessons on water and energy conservation through the LA Youth Food Project garden.

#### All Grades

- ☀ PEEC will send experts to visit your classroom or plan hikes addressing a variety of topics, including mammals, birds, reptiles and amphibians, plants, geology, etc. Are you interested in a local environmental topic? Ask us, and we can find a local expert for you!
- ☀ Take advantage of PEEC's connections with other environmental centers in the region. Make just one call to us, and we will help you line up activities with them.
- ☀ A multitude of resources are available to you for free at our Teacher Resource page ([http://www.pajaritoeec.org/education/teacher\\_resources.php](http://www.pajaritoeec.org/education/teacher_resources.php))

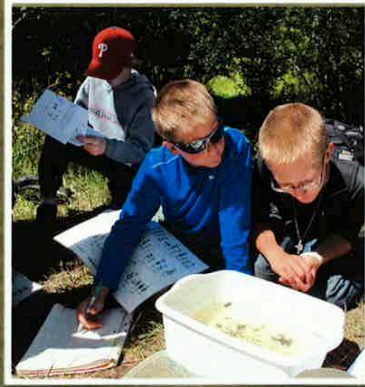


## YOU IMAGINE IT, WE WILL DEVELOP IT!

PEEC is dedicated to connecting the students of Los Alamos County to the nature in their own backyards! In addition to the educational programs PEEC currently offers, we are open to creating new programs. If you are interested in any of the opportunities below, or if you have ideas of your own, let us know and we will develop something to suit your needs.

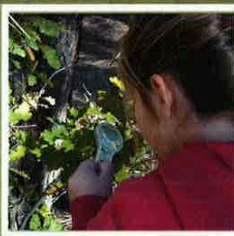
- A local wildlife resource box with puppets, books and activities that you can check out to help you teach a unit on local wildlife
- Opportunities for independent student projects at the middle- and high-school levels
- Field trips for middle- and high-school classes
- Geology hikes on trails near your school
- Connecting music, art and physical education to nature and the outdoors
- Have another lesson or field trip you would like to see? Let us know!

For scheduling or to discuss any of the educational opportunities PEEC has to offer, please contact our Education Programs Director, Siobhan Niklasson, at [educator@pajaritoeec.org](mailto:educator@pajaritoeec.org) or 662-0460.



“These activities have proved to be so worthwhile for my students. Taking children out into the forest really stirs their curiosity and the concepts seem so simple but the hands-on approach makes all the difference in how children internalize concepts. It is difficult as a teacher to have enough time to come up with hands-on experiences to address concepts and in the primary science [this] tends to be overlooked just because language arts and math are stressed more. Thank you so much for these lessons and I would love more. They are better than the science curriculum we have now by far.”

Sheri Davis, Miliken Educator Award-winner  
Aspen Elementary 1st Grade



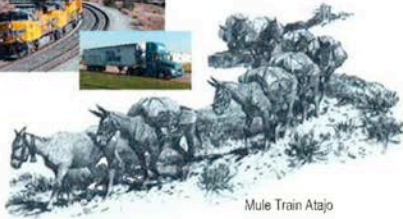
Pajarito Environmental Education Center • 3540 Orange Street • Los Alamos, NM 87544 • 505.662.0460



# Spanish Aparejo Mule/Burro Packing Demonstration\*

Demonstration, Talk, Activities

Before Trains and Trucks merchandise was carried by packed mules and burros.



Mule Train Atajo

## Aparejo Packing System by RONPATRUNDSTRÖM Reindeer Productions

### • What the program can offer •

- Learn about how merchandise was transported on mules and burros over the Old Spanish Trail before the modern times of train and truck transportation.
- See an aparejo (packsaddle) packing demonstration on a life-size wooden burro named "Woody" using the old style Spanish aparejo pack system.
- Kids will put their new packing experiences to use and pack "Donkey" (a 18" Shrek's Donkey).
- Learn about the Arrieros...packers of cargo for most of our Southwest history.
- The kids will meet "Machito", the mozo assistant arriero, and learn his skills.
- Learn new words from the world of the arriero.
- Learn the importance of a Mulera (bellmare) to the mule pack train.
- The arriero is a master of the rope and knot tying. The kids will learn basic knots used in packing.
- An atajo is a pack string. The kid's will handle a miniture atajo and learn about the trail.



Freighter Burro



Packing Demonstration  
at Bent's Old Fort-NPS



- ★ • This program can be adjusted for different grade levels.
- Live burro (outside) packing demonstration is available.
- Authentic aparejo artifacts available for higher grade levels.

RONPATRUNDSTRÖM • ronpat@espanola-nm.com • 1-505-852-2764

## Sponsors

### Primary Sponsors

Los Alamos National Laboratory  
Los Alamos National Security, LLC  
Sandia National Laboratories

### Educational Partners

CCL, CHECS, ENMU, MIT StarLogo,  
NM EPSCoR, NMIHU, NM Tech,  
NM Public Edu Dept, NMSU, NNMC, SJC,  
SFCC, SF Complex, SF Institute, UNM

### Commercial Partners-Gold

Abba Technologies/HP, Google RISE,  
Intel Corporation, Lockheed Martin,  
LANL Foundation, MathWorks,  
VanDyke Software, Wolfram Research

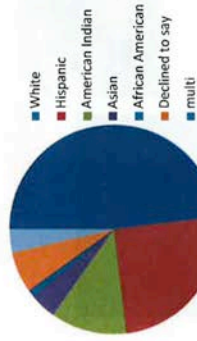
### Commercial Partners-Silver

Gulfstream Group,  
Technology Integration Group

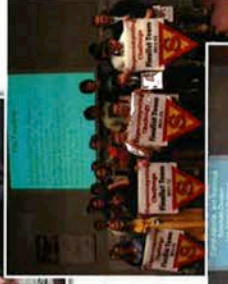
For complete list, go to:

[www.supercomputingchallenge.org](http://www.supercomputingchallenge.org)

## Ethnicity



## Win Awards and Prizes!



For more information see:

[www.supercomputingchallenge.org](http://www.supercomputingchallenge.org)

[consult@challenge.nm.org](mailto:consult@challenge.nm.org)

Interested in  
Computers,  
Science or  
Math?

In  
Middle or  
High School?

Join the  
New Mexico







## Mission

The mission of the Supercomputing Challenge is to teach teams of middle and high school students how to use powerful computers to analyze, model and solve real world problems.

## Important Dates

**September** Teams form and register  
**October** Kickoff conference  
**December** Interim reports due  
**February** Project evaluations  
**April** Written reports due,  
 Web reports due,  
 Project Exposition,  
 Awards Ceremony  
**Summer** Summer Teacher Institute

For more information see:

[www.supercomputingchallenge.org](http://www.supercomputingchallenge.org)

[consult@challenge.nm.org](mailto:consult@challenge.nm.org)



The Supercomputing Challenge has been an ongoing program in New Mexico since 1990. It is dedicated to increasing interest in science and math among 6th through 12th grade students by introducing them to computational science. During the academic school year, teams of students complete computational science projects.

Each team of one to five students and a sponsoring teacher defines and works on a single computational project of its own choosing.

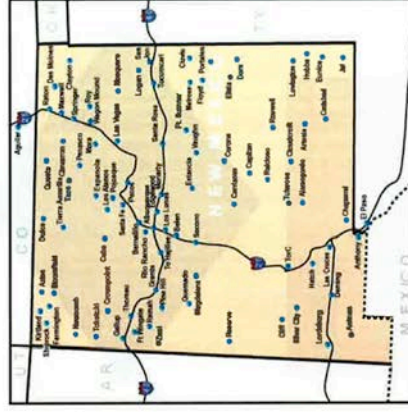
Sponsors of the Challenge provide mentors, time on the supercomputers, tutorial sessions, and awards at the end of the year.

The program has no grade point, class enrollment, or computer experience prerequisites. Participants come from public, private, parochial, and home schools in all areas of New Mexico. The important requirement for participation is a real desire to learn about science and computing.

The Supercomputing Challenge culminates with a presentation of the projects that are judged by several professionals from around New Mexico in a competition for awards of trophies, cash, and scholarships for the individuals and computer equipment for the schools. The awards ceremony is held at Los Alamos National Laboratory in April.

Participants tour the Lab and hear talks about current research during the event.

## Past Participation







As your community college, UNM-Los Alamos offers resources, tools and support that can assist teachers at all levels in a variety of ways.

**Deepen** *knowledge of your field*

As teachers, it's important to stay engaged with content even after earning a degree. Whether your classroom focuses on reading or history, algebra or ecology, our courses can help you maintain your passion. Our instructors are experts in their fields and will help you re-kindle your enthusiasm and deepen your understanding in topics such as:

- Engineering and Computer Science
- Nanotechnology and Robotics
- Classical Studies, Philosophy, Art History and Creative Writing

Enrolling as a credit or non-credit student is easy. To review our Schedule of Classes for the semester and learn more about the registration process, go to [losalamos.unm.edu](http://losalamos.unm.edu).

**Extend** *your reach*

We live in a global information economy and UNM-Los Alamos is part of that expanding system. Through the shared online learning network provided by SUN online, UNM-Los Alamos has access to an array of classes offered by institutions across the state. In addition to courses offered by UNM-Los Alamos instructors, you can now enroll in classes provided by other institutions, including

- Technology for the Classroom
- Cyber Security or Programming Fundamentals
- History of Architecture or Great Works of Western Philosophy

For more information, explore the SUN Online schedule for the semester at <http://skillupnetwork.org/courses> or contact Kathryn Vigil at 505 661 4688.

**Build** *instructional skills*

As teachers, we are continual learners, expanding our ability to engage, explain, assess and reinforce our students' understanding and self-assurance. We do this best when we ourselves continue to discuss and debate issues of pedagogy and to learn about new instructional techniques. At UNM-Los Alamos, we provide a variety of avenues to extend and enhance a teacher's educational toolkit:

- Summer workshops for science teachers
  - Learn the latest in instructional techniques and lesson plans for emerging topics in science
- Education classes through Extended University
  - Study human development, reading strategies, educational leadership, and more.

For information about summer workshops, contact Irina Alvastad at [irina@unm.edu](mailto:irina@unm.edu) or Don Davis at [ddavis48@unm.edu](mailto:ddavis48@unm.edu). For information about classes offered through the UNM Department of Education, contact Emily Macdonald or Cindy Leyba at 505-662-0335 or 505-663-3407.

**Earn a degree**

Whether earning a degree in a new field or completing an advanced course of study, you will find support and opportunity at UNM-Los Alamos. Through our Extended University and online programs, we offer access to and ability to complete a dozen Bachelors and Masters degree programs, including:

- Master of Arts in Educational Leadership
- Master of Arts in Organizational Learning and Instructional Technology
- Master of Arts in Public Administration
- Bachelors and Masters in Computer Science or Engineering

Expand your knowledge while building your professional resume. To learn more, contact Cindy Leyba or Emily Macdonald at 505-662-0335.

**Gain technical skills for the 21<sup>st</sup> century classroom**

As technology is added to every facet of life and learning, it has become a necessary tool in classrooms from K – 20. Our faculty is expert in the use of online and blended learning and practiced with a wide array of technology tools for the classroom. At UNM-Los Alamos, we can assist you in a variety of ways:

- Learn to design and develop online courses
- Add blended learning to your classroom
- Harness the Internet to deliver content and create classroom activities
- Master SmartBoards, SmartPens, iPads and iPhone apps

To learn more about support and custom training in online learning and classroom technology skills, contact Eva Artschwager at eartschw@unm.edu.

**Utilize our resources**

Our faculty and facilities are a rich resource for our institution and our community. Share our wealth and learn how to leverage *our assets for your classroom*. Ways in which you can draw on our campus strengths include:

- Inviting faculty to deliver guest lectures to your class
- Visiting a campus class with your students
- Supporting dual- and concurrent enrollment opportunities for your students
- Utilizing our facilities in machining, welding, ceramics, robotics

For more information, contact the Dean of Instruction at 505-661-4680.

**Know our Library**

The library at UNM-Los Alamos provides access to scholarly journals and media resources on almost any topic. Through our online databases and periodical subscriptions, you have access to the resources of the entire UNM Library system, including Interlibrary Loan. Whether exploring your own interests, pursuing scholarly study, or preparing your students for university level research, the UNM-Los Alamos library offers you rich resources, including

- Access to the library facility and its resources during open hours
- 24/7 access to selected online databases and resources, including access to many scholarly articles in the humanities, arts and sciences
- Tutorials and tours to help you learn college level research and writing skills

For more information, visit the library's website:

[losalamos.unm.edu/library/services/community-members.html](http://losalamos.unm.edu/library/services/community-members.html)

For more info call (505) 662-5919 or visit our website at <http://losalamos.unm.edu>

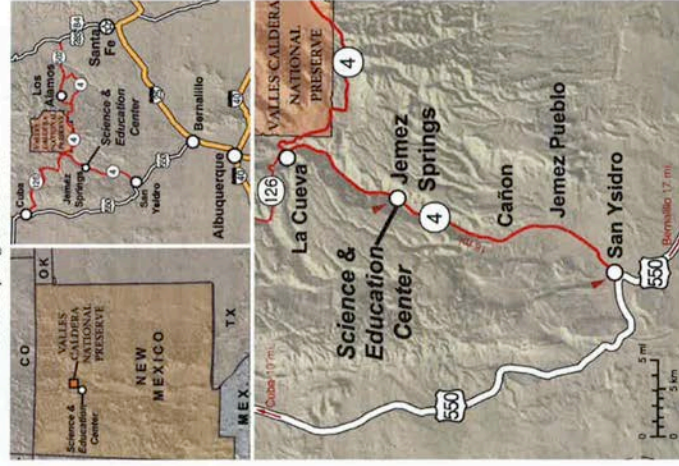
# VALLES CALDERA NATIONAL PRESERVE

# VALLES CALDERA NATIONAL PRESERVE

# VALLES CALDERA NATIONAL PRESERVE

## Location & Contact Info

Valles Caldera Trust Offices 90 Villa Louis Martin  
Jemez Springs, NM 87025



## Our philosophy

Our education programs are built on the philosophy of "learning by doing". Students investigate classroom subjects through hands-on, heads-on activities that cultivate critical thinking and creativity.



VCT education programs are correlated to New Mexico education standards and are **FREE** to schools physically located within Los Alamos or Jemez Valley Public School Districts.

## Education Programs 2013



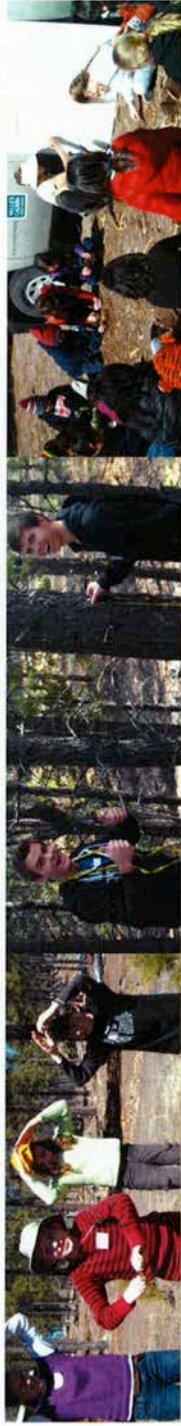
Lead Educator: Brittney Van Der Werff  
e: [bvanderwerff@vallescaldera.gov](mailto:bvanderwerff@vallescaldera.gov)  
p: 505-629-1418

[www.vallescaldera.gov](http://www.vallescaldera.gov)

Did you know our  
education programs are  
**FREE** to local schools?







# EDUCATION PROGRAMS



## Ecosystems

Experiencing an Ecosystem • 2<sup>nd</sup> - 4<sup>th</sup> grade • 3hrs  
Students use all of their senses to gain a greater understanding of how different organisms work together in an ecosystem.

Exploring our Ecosystems • 5<sup>th</sup> - 6<sup>th</sup> grade • 3hrs  
Students investigate ecosystem interactions and components while working together to solve a local ecosystem mystery.

Essence of an Ecosystem • 7<sup>th</sup> - 12<sup>th</sup> grade • 3hrs  
Through a variety of outdoor labs and activities, students learn how energy flows through ecosystems and how humans impact ecosystems in New Mexico.



## Water Ecology

Little Lives: Macro-invertebrates • 4<sup>th</sup> - 6<sup>th</sup> grade • 3hrs  
Students investigate the little lives often overlooked in streams and learn how the creatures they find can tell a lot about the ecosystem around them.



## Forest Ecology

Forest Fun! • K - 4<sup>th</sup> grade • 3hrs  
The first step to learning about something is to experience it! In this program students will make use of all their senses to investigate the forest around them.

Understanding our Forests • 4<sup>th</sup> - 6<sup>th</sup> grade • 3hrs  
Through activities, games, and creative writing, students will learn about the parts of a tree, the life cycle of forests, and the animals that depend on local forests to survive.

Forest Monitoring • 8<sup>th</sup> - 12<sup>th</sup> grade • 3hrs  
Students will learn about forest health, restoration, and management while they collect data that will be used by Valles Caldera Trust (VCT) scientists!

2-day Forest Monitoring • 6<sup>th</sup> - 12<sup>th</sup> grade • 2 days  
The overnight version of this program focuses on cultivating student understanding of forest ecology and data collection methods. With lab experiments and guided discussions students will build the context needed to understand why the data they collect is important.



## Lab Programs

Creating a Caldera • 4<sup>th</sup> - 8<sup>th</sup> grade • 1.5 hrs • max 40  
Students develop and test various hypotheses aimed at explaining the geological structure of the Valles Caldera.

Matchstick Forest • 5<sup>th</sup> - 12<sup>th</sup> grade • 1.5 hrs • max 40  
Students investigate variables that influence forest fires by designing (and igniting) their own forests.



## Short Talks

VCT Staff will give a 30 min. talk on the following topics:  
Overview of Preserve •  
Basic Geology • Forest Ecology •  
Water Ecology • Fire Ecology •  
Research happening at Preserve  
(all talks given at the Preserve)



## Class Hikes

Wildlife on La Jara • 1.5 hrs  
Fire Ecology on Coyote Call • 2.5 hrs  
Ranching History at Valle Pond • 1 hr  
Custom topic hike • 1-2 hrs



Interested in booking a program? Call: 505-629-1418 or Email: [bvanderwerff@vallescaldera.gov](mailto:bvanderwerff@vallescaldera.gov)



# VILLAGE ARTS



## \*\*\* Create \*\*\*

We have:

\*A MURAL WALL with plenty of space for a class to paint, &

\*Potential INTERNSHIP opportunities with High School students through Work Study Class

## \*\*\* SHOW \*\*\*



We have an exhibit wall and front window display where we'd love to feature artwork/projects. We can create a gallery experience with display and consignment lessons at your school, and give a tour of the Village Arts space. Please plan ahead.

## \*\*\* Inspire \*\*\*

We have:

- \*An classroom space for public use,
- \*An active and interactive Facebook page for weekly project ideas, &
- \*Student discounts for any class project with a materials list.

## VILLAGE ARTS

\* 216 DP Road \* Los Alamos, NM 87544 \* 1(505)661-2526 \*  
 \* [www.villageartsframing.com](http://www.villageartsframing.com) \* 9-6 M-F, 10-4 Sa \*